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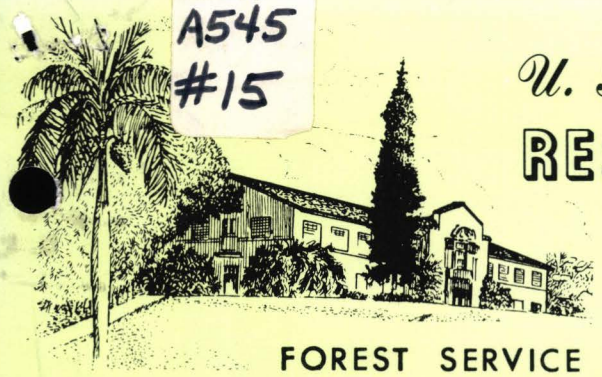

U. S. D. A. Forest Service

RESEARCH NOTE NO. ITF 15

INSTITUTE OF TROPICAL FORESTRY*
RIO PIEDRAS, PUERTO RICO

FOREST SERVICE – U.S DEPARTMENT OF AGRICULTURE

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DIRECTORY OF MANUFACTURERS AND DISTRIBUTORS OF CONTAINERS SUITABLE FOR GROWING FOREST TREE SEEDLINGS

compiled

by

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ROCKY MOUNTAIN STATION

The development of mechanized systems for the production of container-grown forest tree seedlings has received considerable attention by nursery researchers during the last 6 years. A variety of containers have been tested; however, few comprehensive containerized systems have evolved. An important consideration is the development of a nursery container which is compatible with mechanized field planting systems. The cost of the container is important, but it should not be the limiting factor in selecting a containerized planting system.

Currently many types of containers are being tested in experimental forest tree nurseries. These containers are manufactured from a variety of materials and range widely in design. Unfortunately, tropical and subtropical countries are isolated from the mainstream of temperate climate containerized seedling research. The paucity of advertisement in tropical nursery literature by container producers contributes to this isolation. Also, there appears to be little personal communication between tropical and temperate climate nurserymen. The compilation of this directory was undertaken to help bridge this information gap.

This directory was compiled by writing to all known manufacturers and/or distributors of containers for forest tree seedling production. Letters were also sent to many individuals working with containerized seedling systems. In almost all instances individuals and manufacturers have cooperated by sending addresses, samples and additional information about particular containers. The Institute of Tropical Forestry is making this information available as received in order that researchers will have a directory which can be used for product information orientation; however, we cannot guarantee its completeness or accuracy. We hope to republish the directory within 12 to 18 months in order to update the listings and to describe new containers as they become available. Any additions or corrections to this directory will be greatly appreciated.

La producción mecanizada de arbolitos forestales, utilizando envases en el vivero, ha recibido mucha atención de parte de los investigadores en los últimos seis años. Se ha experimentado con una variedad de envases; sin embargo, muy pocos sistemas de envase, amplios y comprensivos, han sido desarrollados. El desarrollo de un envase que también sea compatible con los sistemas mecanizados existentes de plantar el arbolito en el campo, es de mucha importancia. El costo del envase es importante, pero no debe ser el factor restrictivo para escoger un sistema de producción por envase.

Actualmente se están ensayando muchos tipos de envases en los viveros forestales experimentales. Estos envases son fabricados de una variedad de materiales y en diferentes diseños. La gran mayoría de los estudios y ensayos utilizando envases en el vivero forestal proviene de los países de la zona templada. La práctica de producir arbolitos en envases es vieja en los países tropicales y subtropicales; sin embargo las técnicas de mecanización del sistema de producción en masa recién utilizadas por los países de las zonas templadas no han sido empleadas en el trópico. El poco conocimiento de estos sistemas en el trópico es en parte una falta de comunicación entre investigadores de ambas partes del mundo. También ha habido muy poca propaganda comercial en los países tropicales sobre los nuevos adelantos y tipos de envases utilizados en la producción en masa de arbolitos. Se espera que este directorio logre cerrar esta brecha de información.

Este directorio fue preparado basado en la información suplida por los fabricantes de envases. Se espera que dicha información sea una repetición fiel de la información recibida por nosotros. De todos modos recomendamos que cada investigador escriba personalmente a cada fabricante para obtener muestras e información adicional sobre los envases descritos en este directorio. De esta manera el investigador podrá orientarse mejor sobre los productos disponibles para la producción en masa de arbolitos en envases. El Instituto de Dasonomía Tropical espera publicar de nuevo este directorio dentro de 12 a 18 meses con nuevas direcciones y más información sobre los envases.

Alphabetical list of manufacturers and/or distributors of containers suitable for growing forest tree seedlings

Lista alfabética de manufactureros y distribuidores de envases para arbolitos forestales

Address Dirección	Common Name Nombre Común	Container Material Material del Envase	Container Volume cm^3 Volumen del Envase	Biodegradable Properties Propiedades Biodegradables	Root Egress Penetración de Raíz
Agritec Co. Inc. 4939 D Milwee Houston, Texas 77018	Polyloam Tree Container	Nutrient enriched synthetic base material	20 - 37	slowly	Yes
Beaver Plastics, Ltd. 12806-63 Street Edmonton, Alberta Canada	Styroblock	Polystyrene foam	35 - 120	No (reusable 2-3 times)	No
Better Plastics, Inc. 2206 N. Main Street Kissimmee, Florida 32741	Test Tube	Polyethylene	variable	No (reusable)	No
Brighton By-Products P. O. Box 23 New Brighton, Pennsylvania 15006	Kys-Kube	Organic-Inorganic mixture	20 - 25	Yes	Yes
Brighton By-Products P. O. Box 23 New Brighton, Pennsylvania 15006	0-903	Phenol formaldehyde with residual phosphates, nitrates and soda ash	20 - 30	slowly	Yes

Address Dirección	Common Name Nombre Común	Container Material Material del Envase	Container Volume cm^3 Volumen del Envase	Biodegradable Properties Propiedades Biodegradables	Root Egress Penetración de Raíz
Colorado State Nursery Foothills Campus Colorado State Univ. Fort Collins, Colorado 80521	Tar Paper Pot	15 # Tar Paper	variable	slowly	slowly
	(Containers are not commercially available, however, blueprints for production systems are available upon request)				
Columbia Plastics, Ltd. 2155 West 10th Avenue Vancouver 9, British Columbia Canada	Modified Walter's Bullet	High impact polystyrene	15 - 25	No	Yes
Conwed Corporation 742, 29th Avenue S.E. Minneapolis, Minn. 55414	Conwed® Open-mesh plastic tubing	Plastic webs	variable	No (products under development)	Yes
Edmonton Nurseries, Ltd. 13332 - 137th Avenue Edmonton, Alberta Canada	Peat Sausage or Easy Root Container	Low density polyethylene filled with peat	variable	slowly	No
Famco, Inc. 300 Lake Road Medina, Ohio 44256	BR-8	Modified cellulose fiber	20 - 30	Yes	Yes

Address Dirección	Common Name Nombre Común	Container Material Material del Envase	Container Volume cm^3 Volumen del Envase	Biodegradable Properties Propiedades Biodegradables	Root Egress Penetración de Raíz
GASPRO, Inc. 2305 Kamehameha Highway Honolulu, Hawaii 96819	Hawaii Dibbling Tube	Polyethylene	30	No (reusable)	No
Green Thumb Products Corp. Drawer 760 Apopka, Florida 32703	Rack Substratum System 73	Natural and synthetic fibers	variable	Yes	Yes
Jiffy Products of America P. O. Box 338 West Chicago, Illinois 60185	Jiffy-7 peat pellets, strips and pots	Peat	20 - 40	Yes	Yes
Keyes Fibre Co. Horticultural Division Department X New Iberia, Louisiana 70560	Kys-Kube	Organic-Inorganic mixture	20 - 25	Yes	Yes

Address Dirección	Common Name Nombre Común	Container Material Material del Envase	Container Volume cm^3 Volumen del Envase	Biodegradable Properties Propiedades Biodegradables	Root Egress Penetración de Raíz
Lännen Tehtaat Oy Paperpot Department SF-27820 ISO-VIMMA Finland	Paperpot Method, Equipment for the Paperpot Method, consulting service in nursery planning (European distributor)	Special Paper	10 - 650 (approximately 20 different sizes, 3 different qualities)	Yes	Yes
Lännen Tehtaat Oy Paperpot Department SF-27820 ISO-VIMMA Finland	NISULA Roll Plant Method Transplanting machines (European Dist.)	Polyethylene film	variable	No	No
		(For above 2, see also Reid, Collins and United Asia)			
Micro-Plastics Co., Ltd. P. O. Box 844 Guelph, Ontario N1H 6M6	Ontario Tube	High impact polystyrene	variable	No	No
Poly-cast Plastics Route 2, Box 706 Beaverton, Oregon 97005	Cone-tainer	High density polyethylene	variable	No (reusable)	No
Reid, Collins and Associates, Inc. Reforestation Division 550 Burrar Street Vancouver, Canada V6C 2K6	Paperpot Method, Equipment for the Paperpot Method, consulting service in nursery planning (Canadian distributor)	Special paper	10 - 650 (approximately 20 different sizes, 3 different qualities)	Yes	Yes

Address Dirección	Common Name Nombre Común	Container Material Material del Envase	Container Volume cm^3 Volumen del Envase	Biodegradable Properties Propiedades Biodegradables	Root Egress Penetración de Raíz
Rex Packaging, Inc. P. O. Box 18257 Jacksonville, Florida 32229	Polypot	Polyethylene coated paper	200 (square dimensions)	slowly	No
Silvaseed Company P. O. Box 118 Roy, Washington 98580	Styroblock (U.S.A. distributor)	Polystyrene foam	35 - 120	No (reusable 2-3 times)	No
Spencer-Lemaire Industries, Ltd. 9160 Jasper Ave. Edmonton, Alberta Canada	Rootrainers (Equipment for Rootrainers Method also available)	Polystyrene cellulose acetate	30 - 340	No (perhaps reusable)	No
Tri-State Mill Supply Co. P. O. Box 220 Crossett, Arkansas 71635	Styroblock	Polystyrene foam	35 - 120	No (reusable 2-3 times)	No
Union Carbide Corp. Chemicals and Plastics Division River Road Bound Brook, N. J 08805	- - -	Polycaprolactone	variable	Yes (currently in experi-mental stages)	Yes

Address Dirección	Common Name Nombre Común	Container Material Material del Envase	Container Volume cm^3 Volumen del Envase	Biodegradable Properties Propiedades Biodegradables	Root Egress Penetración de Raíz
United Asia Trading Co., Inc. 3840 Crenshaw Blvd. Los Angeles 8, California	NISULA Roll Plant Method, Transplanting Machine (U.S.A. distributor)	Polyethylene film	variable	Yes	No
United Asia Trading Co., Inc. 3840 Crenshaw Blvd. Los Angeles 8, California	Paperpot Method, Equipment for the Paperpot Method, consulting service in nursery planning (U.S.A. distributor)	Special paper	10 - 650 (approximately 20 different sizes, 3 different qualities)	Yes	Yes
Wood Nursery Division of Crown Zellerbach Route 2, Box 285 Aurora, Oregon 97002	Multiple Pot	High density polyethylene	140	No	No